

Fig. 1

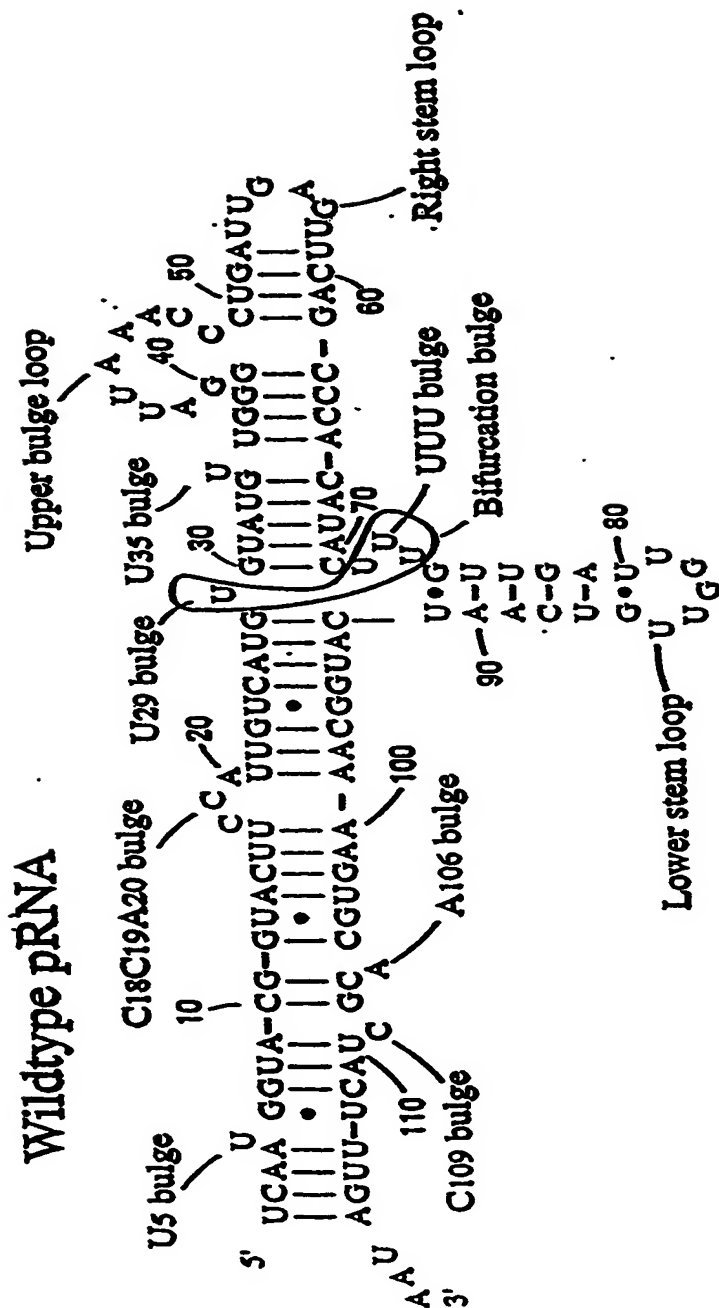
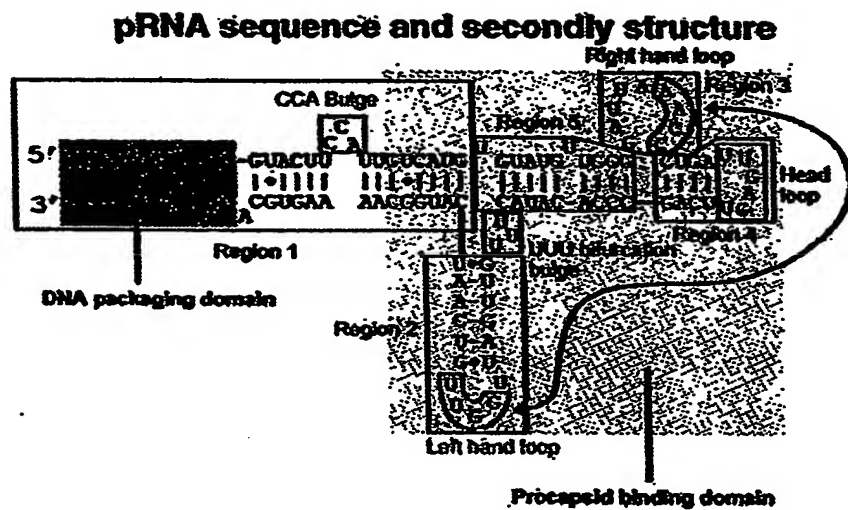


Fig. 2(a)

**Fig. 2(b)**

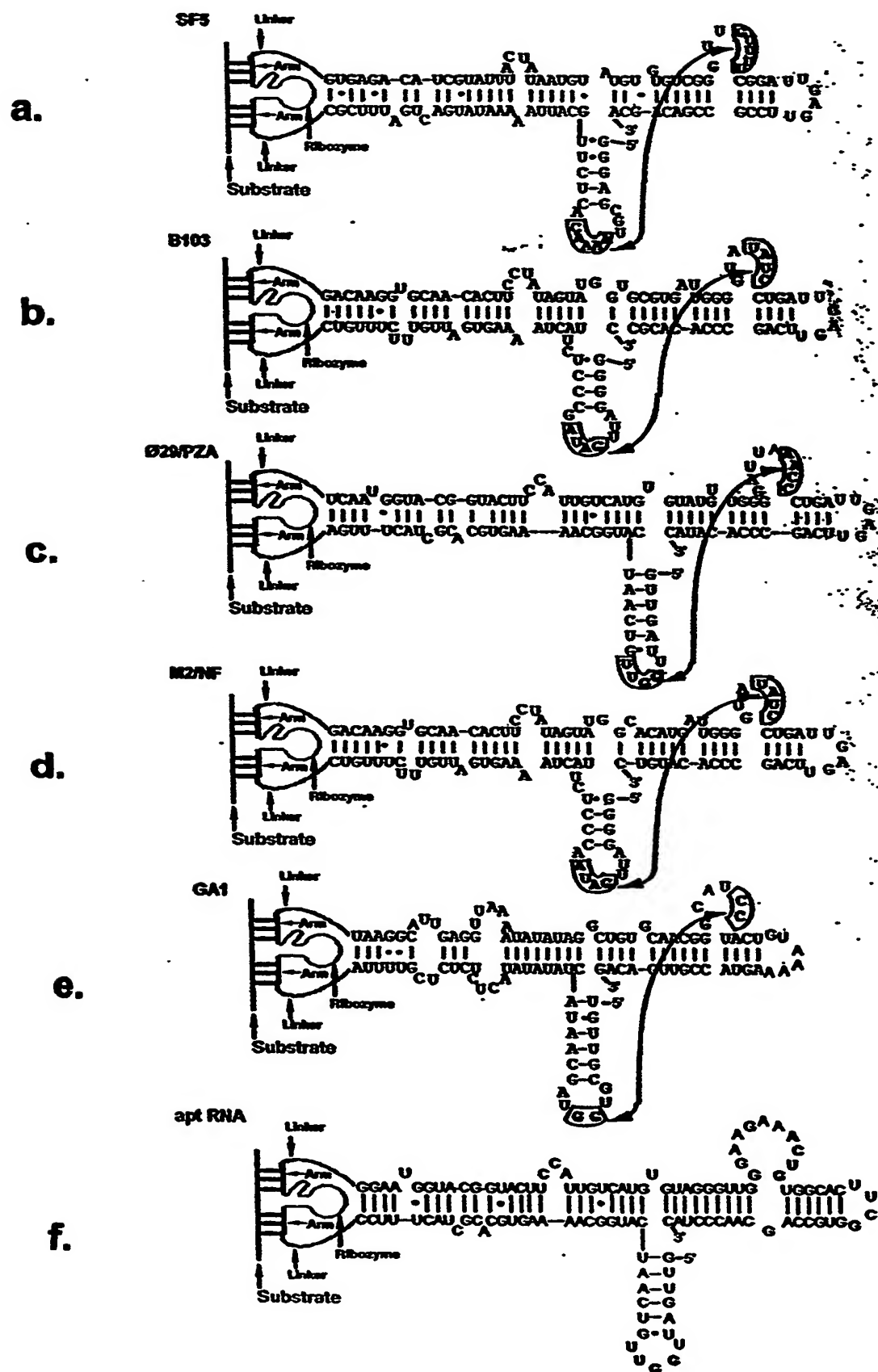
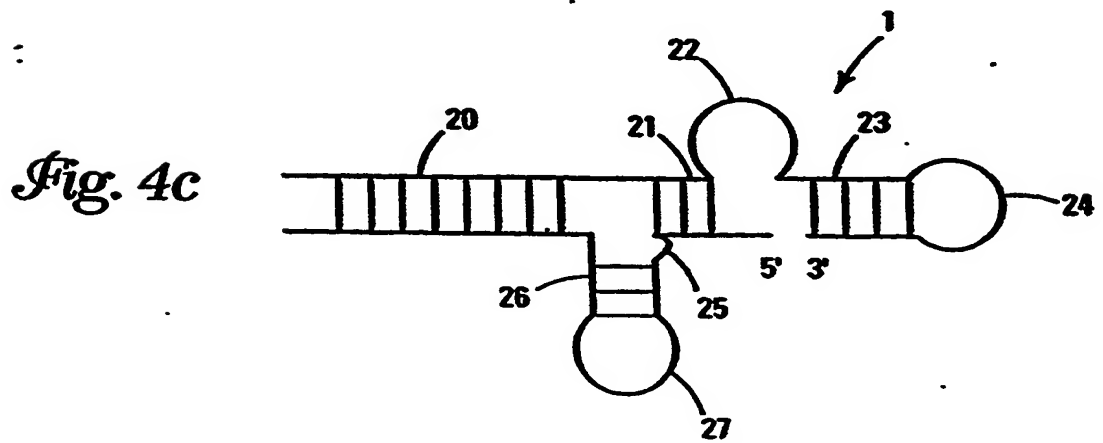
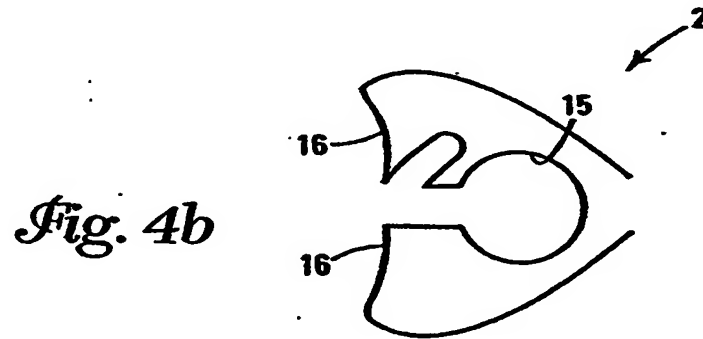
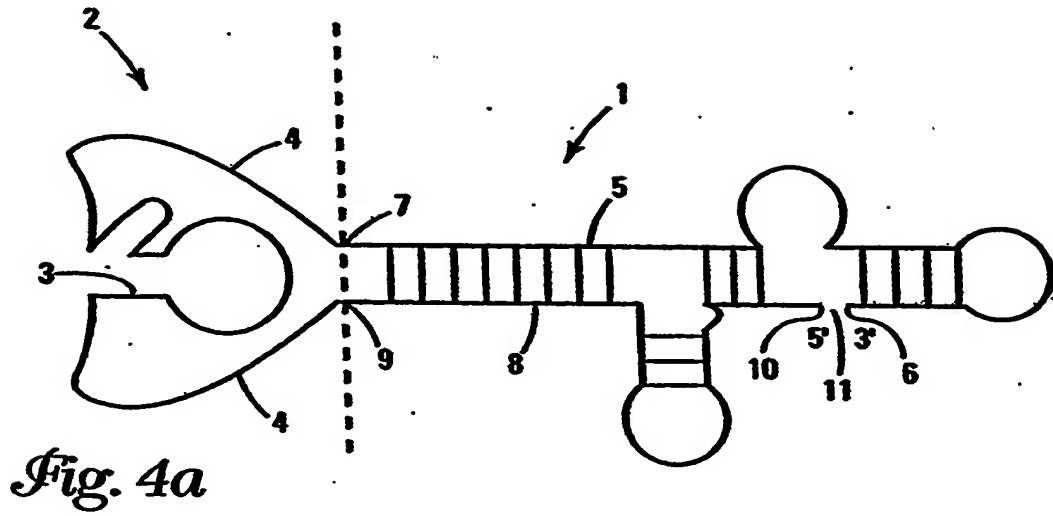


Fig. 3



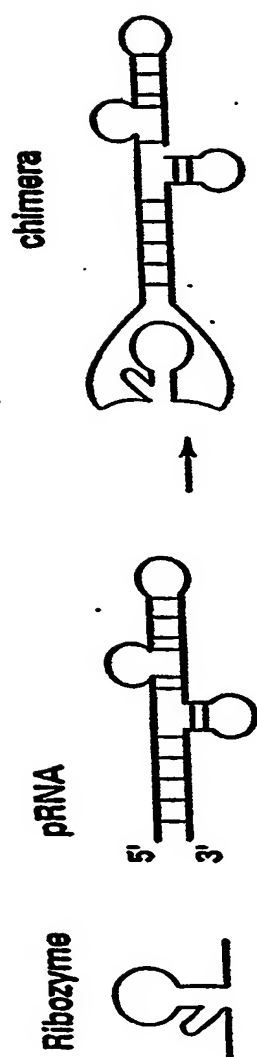
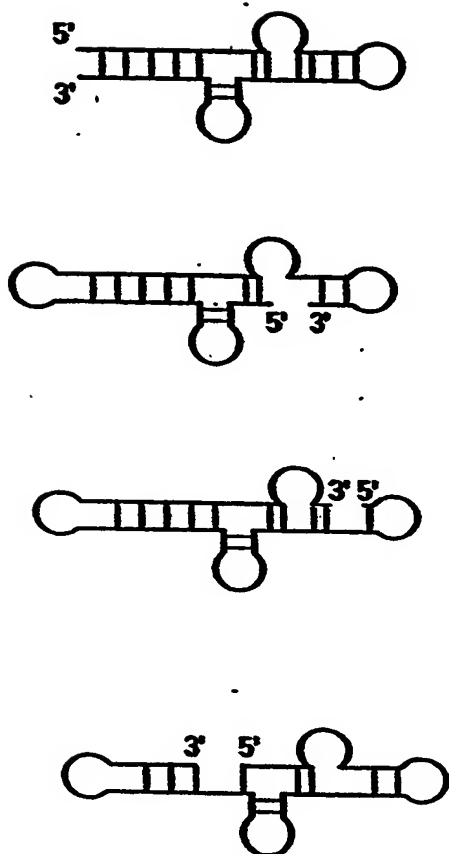
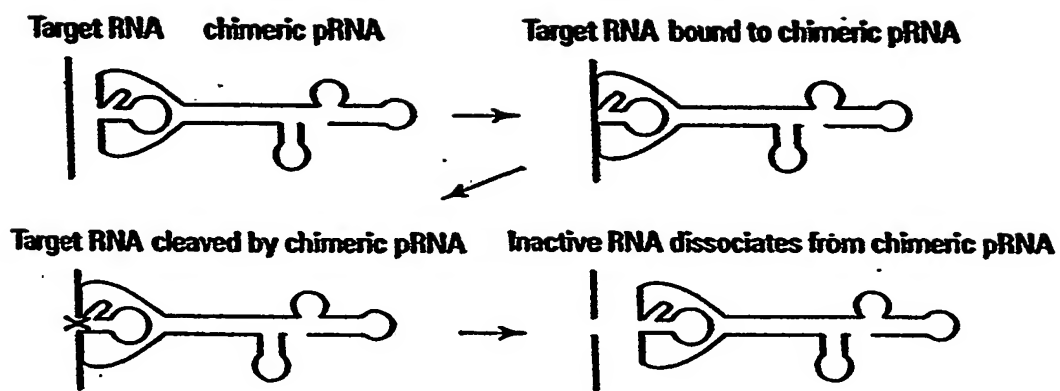


Fig. 5a

**Fig. 5(b)**

**Fig. 6(a)**

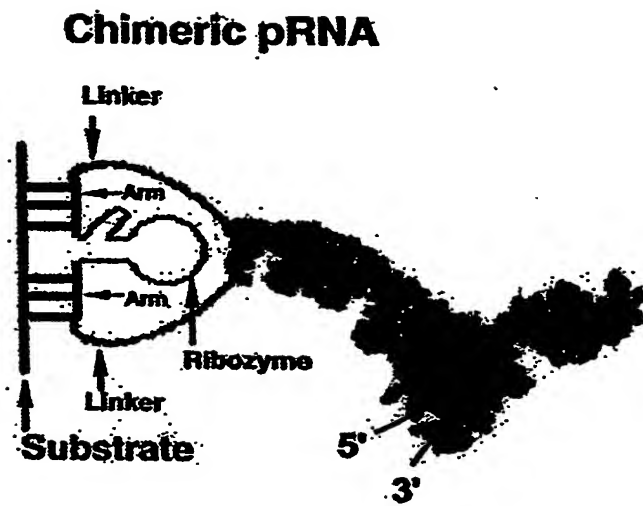


Fig. 6(b)

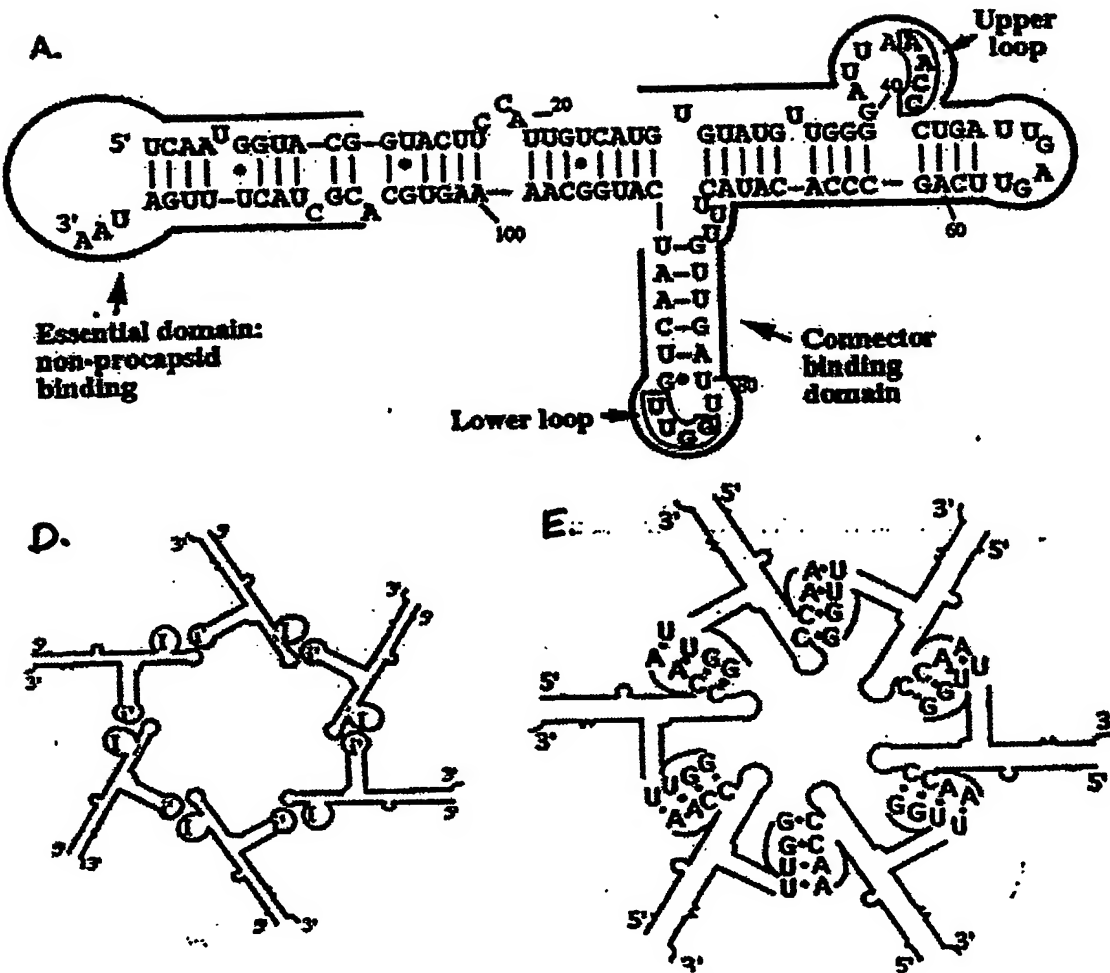


Fig. 7

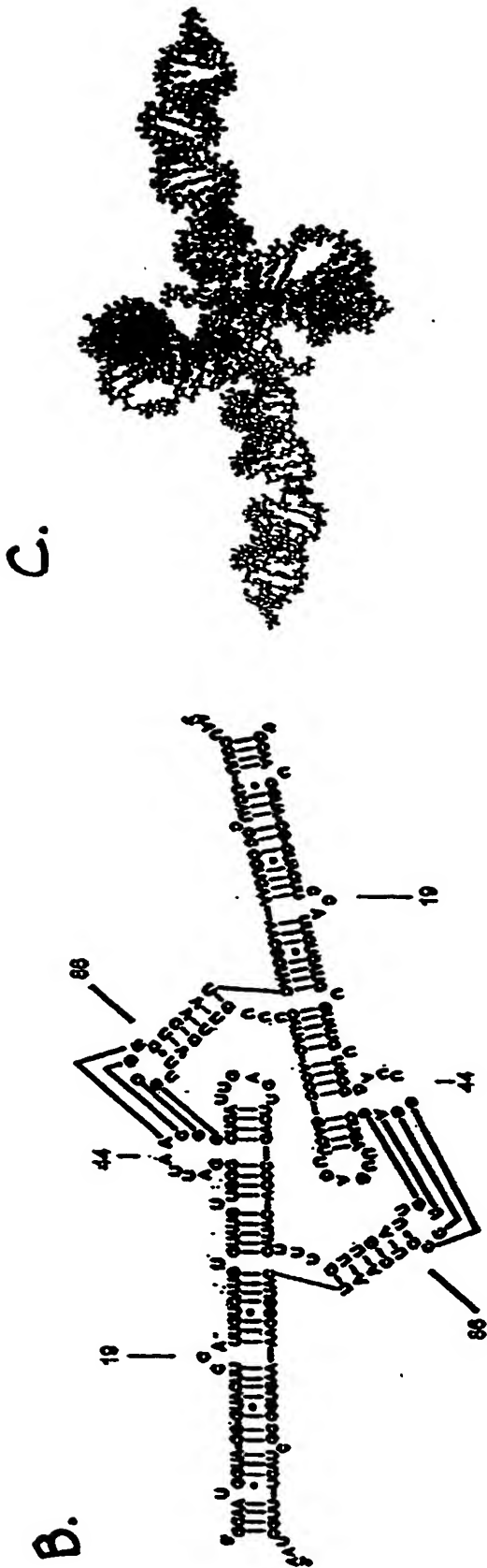


Fig. 7

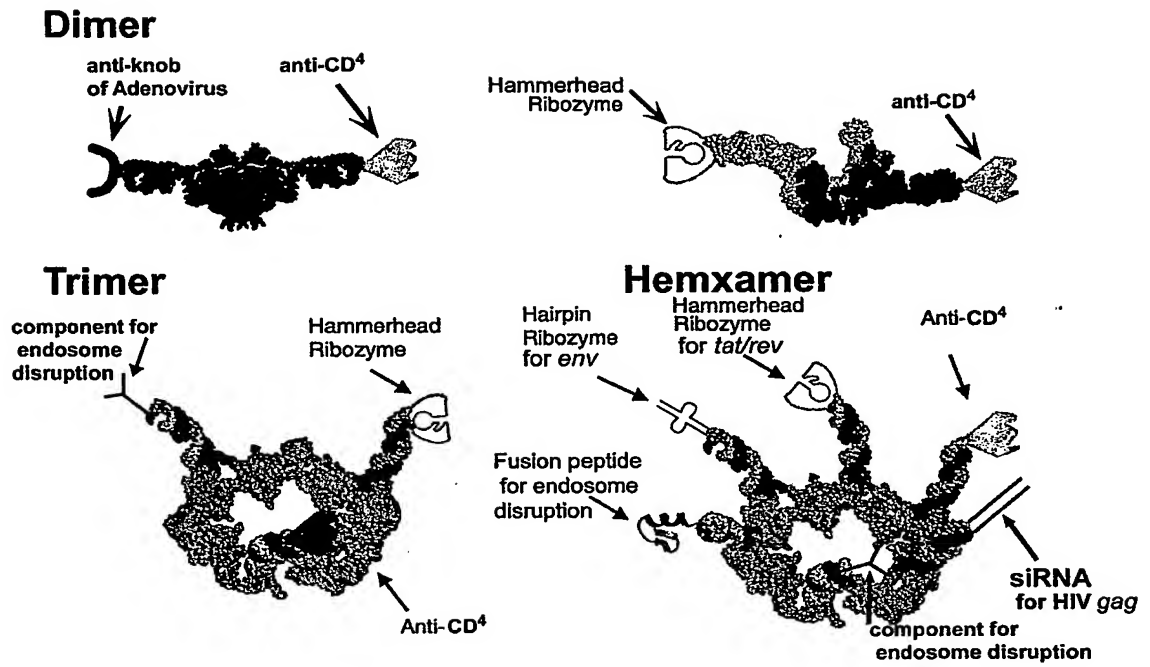
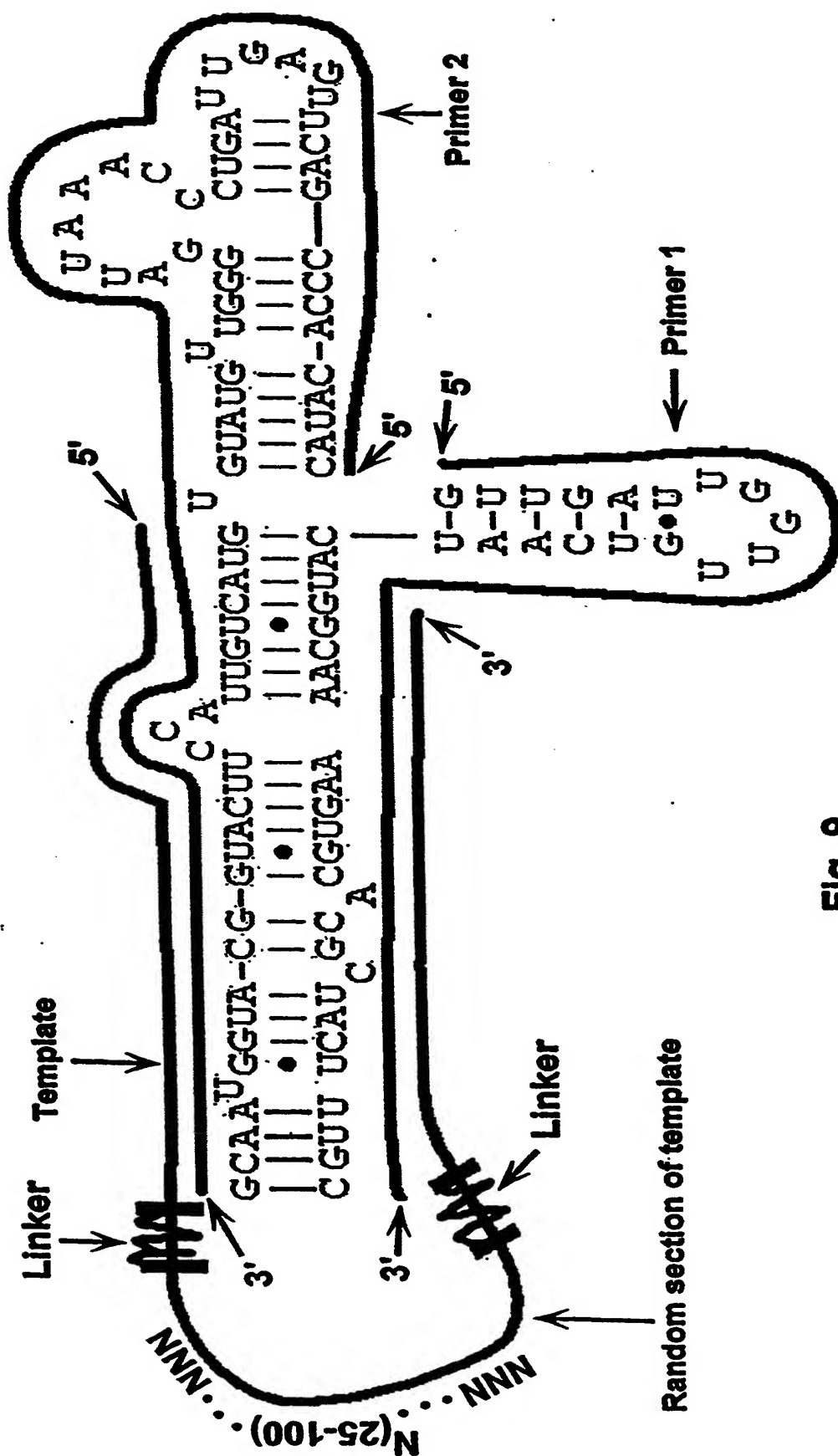


Fig. 8



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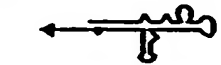
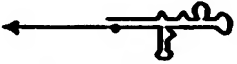
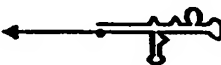

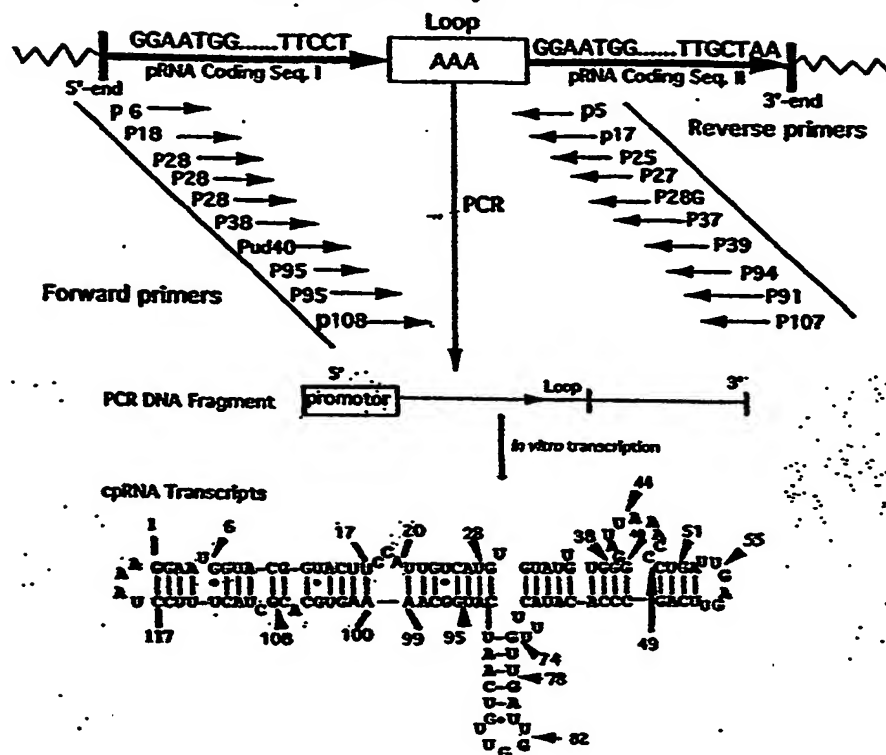
Name of RNA	Activity	Sequence of 3' overhang	3' overhang base number	Structure
Eco-pRNA	10^8	AA GCC GAA UU (SEQ ID NO:19)	10 bases	 3' overhang 10 bases
XbHi-pRNA	10^8	AAGCCGAAUUC AGCACACUGGCG GCCGUUACUAGU GGAUCCGAGCUC GGUACCAAGCU (SEQ ID NO:20)	59 bases	 3' overhang 59 bases
174-pRNA	10^8	CCUUUACAUGC GACACAGACGAA GCGCUAAAACGU GGGAUUCUGUG UCGUUUU (SEQ ID NO:21)	54 bases	 3' overhang 50 bases
DI-RNA	10^8	UCAAUGGUACGG UACUCCAUUGU CAUGUGUAUGUU GGGGAUUAACCC CUGAUUGAGUUC AGCCCACAUACU UUGUUGAUUGGU UGUCAUCAUGG CAAAAGUGCACG CUACUUUGAUAA (SEQ ID NO:22)	120 bases	 3' overhang 120 bases

Fig. 10

a. Small loop inserted



b. Large loop inserted

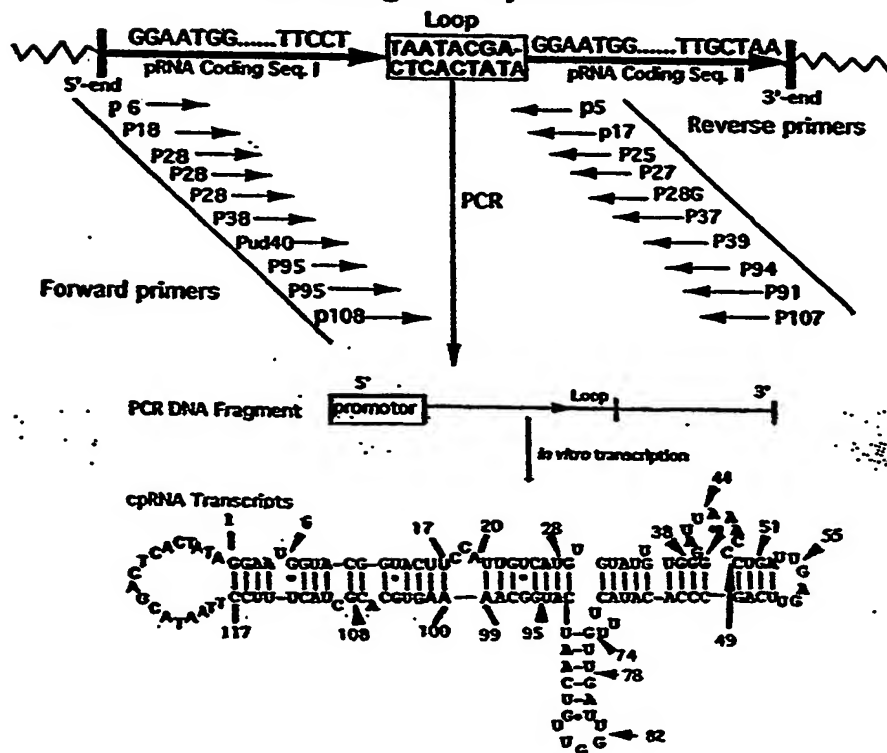


Fig. 11

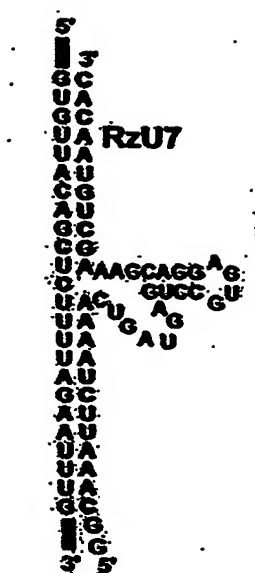


Fig. 13(a)

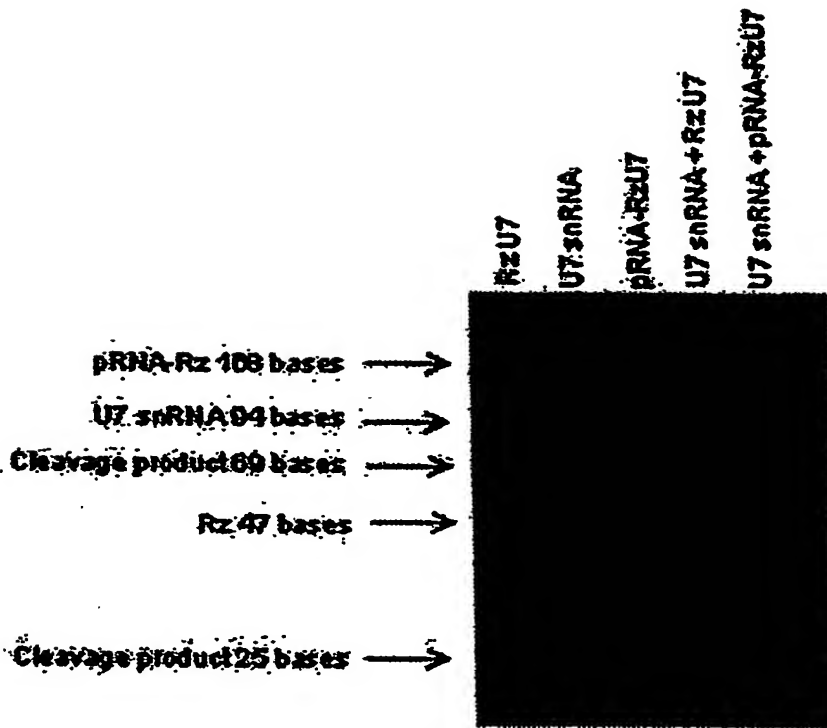


Fig. 13(b)

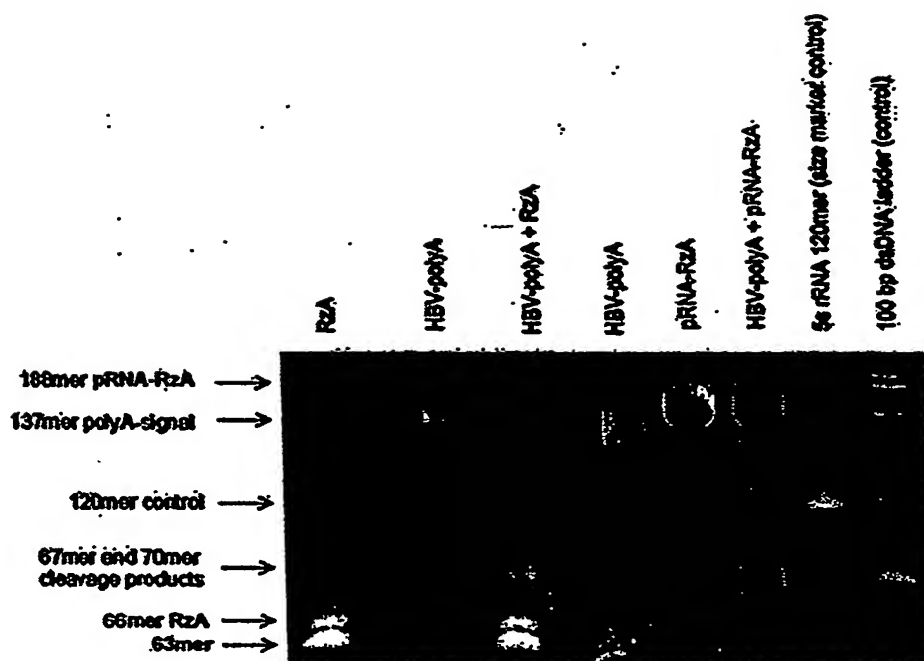


Fig. 14

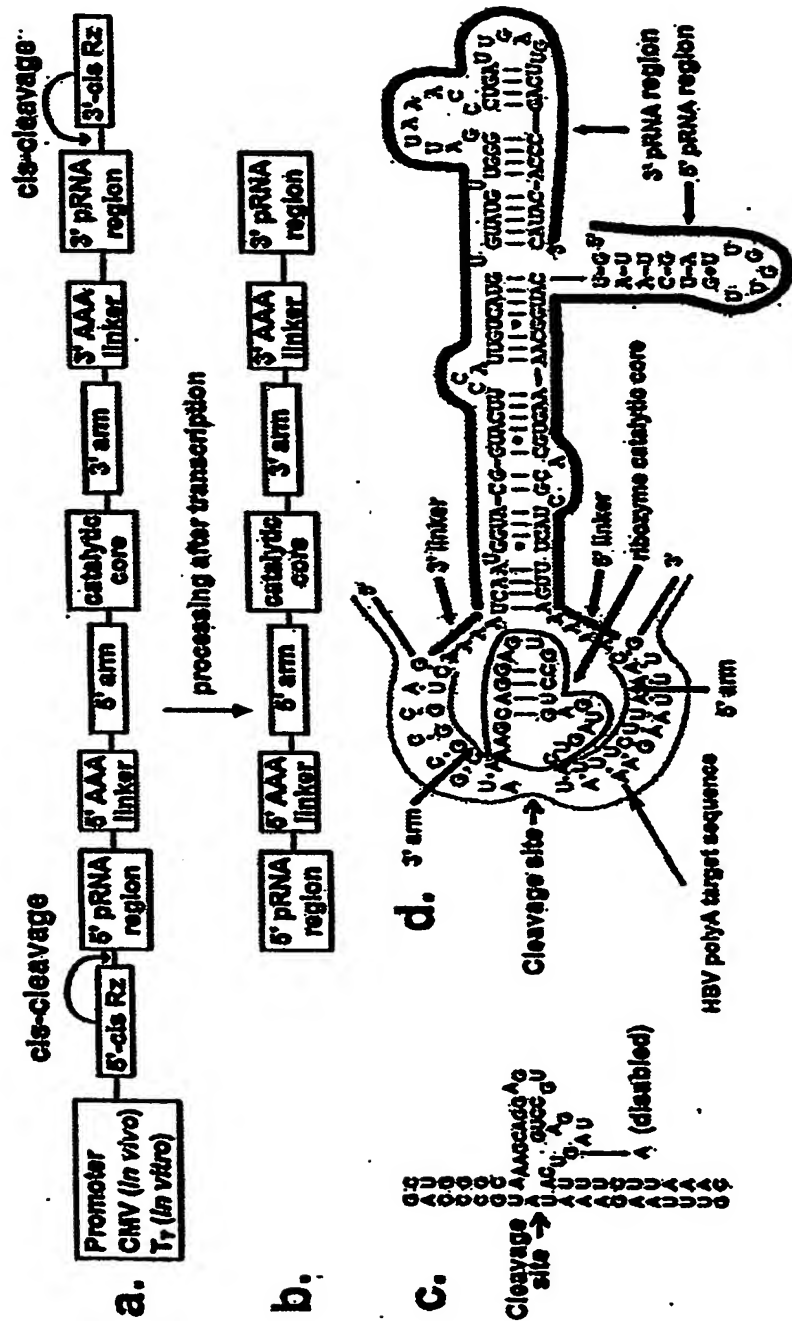
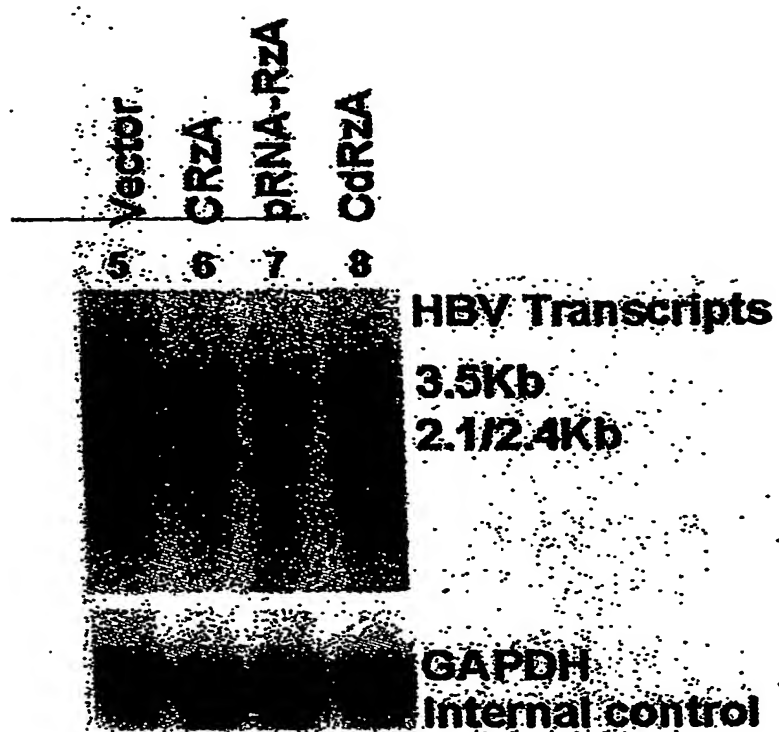


Fig. 15

**Fig. 16**

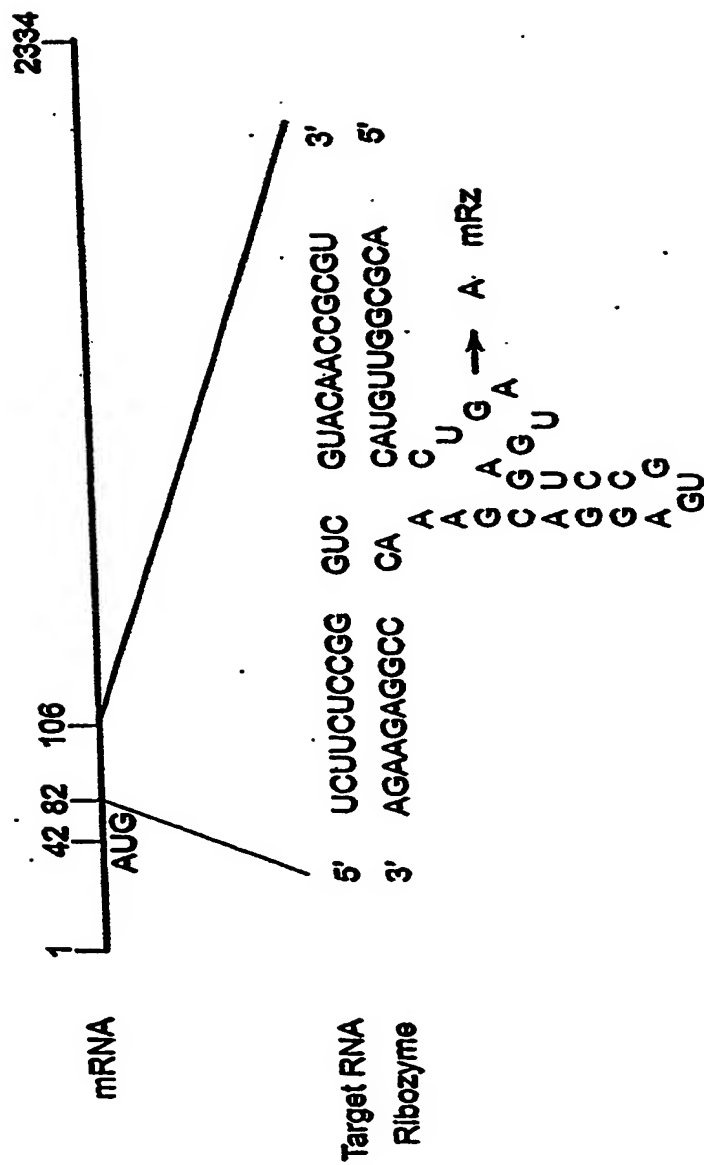


Fig. 17

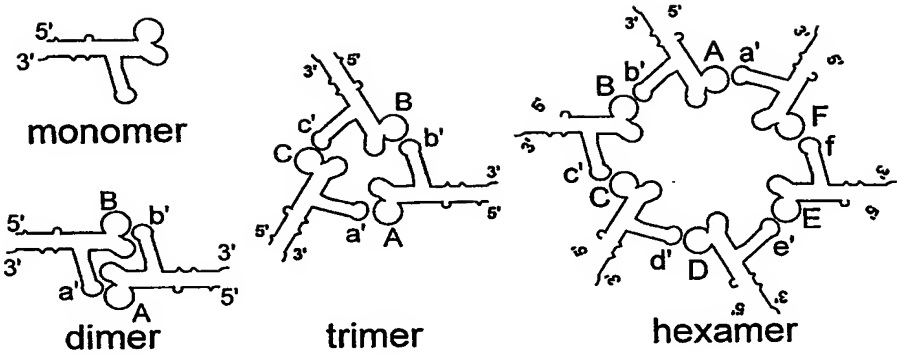


Fig. 18

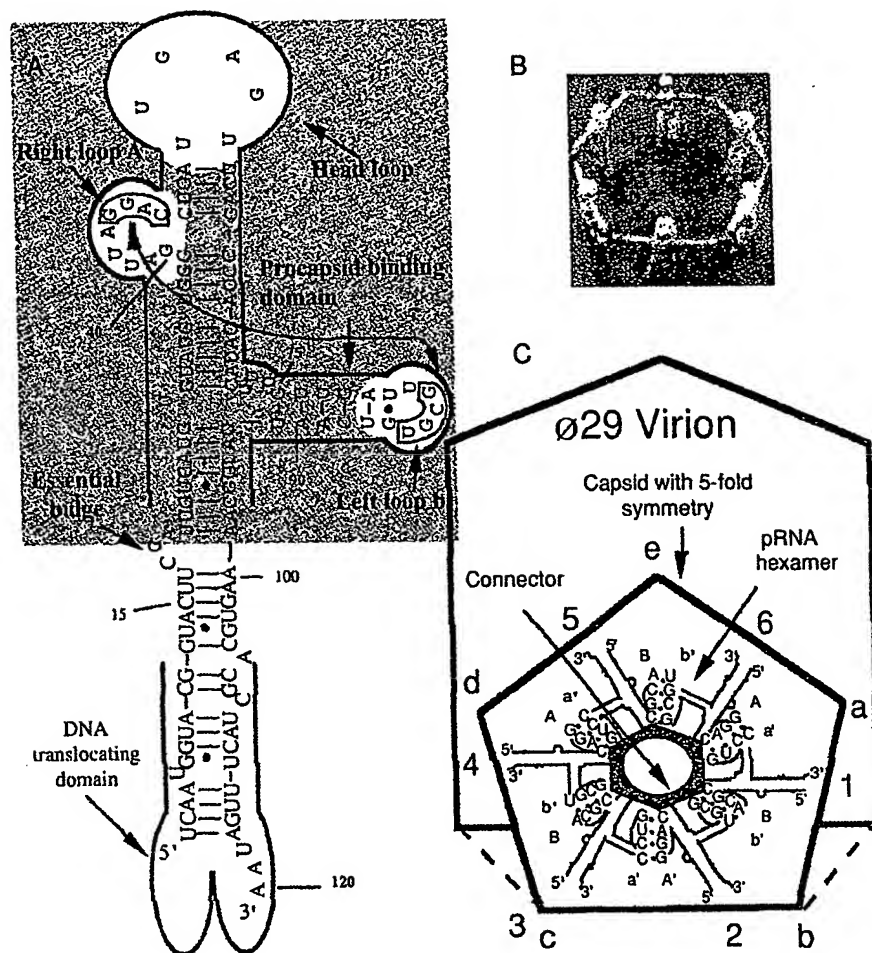
**Fig. 19**

Table A Two Interlocking pRNAs

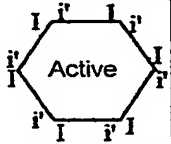
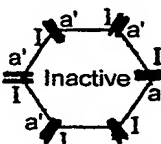

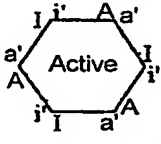
pRNAs	Predicted Hexamer	pRNAs	Predicted Hexamer
I-i' (wild type pRNA)		I-a' (unpaired loop)	
A-i' (Unpaired loop)		(I-a') + (A-i') (Compensatory pair)	

Table B Three Interlocking pRNAs


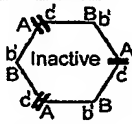
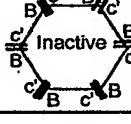
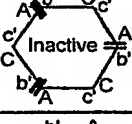
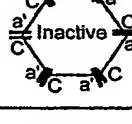
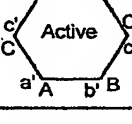
pRNAs	Predicted Hexamer	pRNAs	Predicted Hexamer
A-b' (Unpaired loop)		(A-b') + (B-c') (miss one link)	
B-c' (Unpaired loop)		(A-c') + (C-b') (miss one link)	
C-a' (Unpaired loop)		(A-b') + (B-c') + (C-a') (compensatory trimer)	

Table C Six Interlocking pRNAs

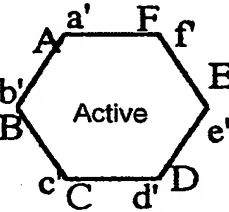
pRNAs	Predicted Hexamer
(A-b')+(B-c')+(C-d')+(D-e')+(E-f')+(F-a')	

Fig. 20

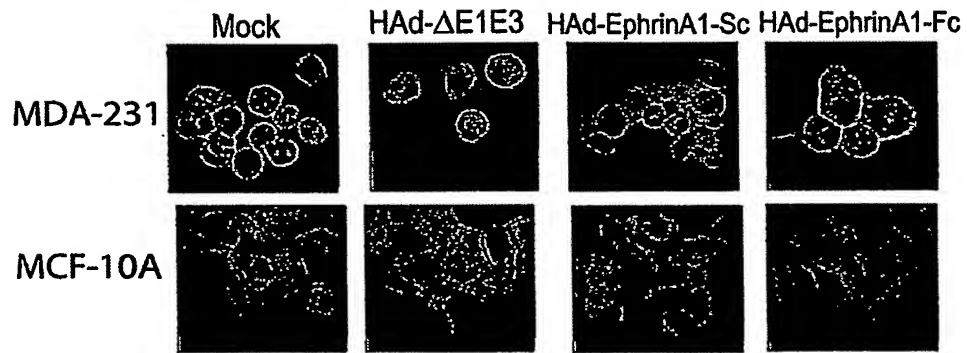


Fig. 21

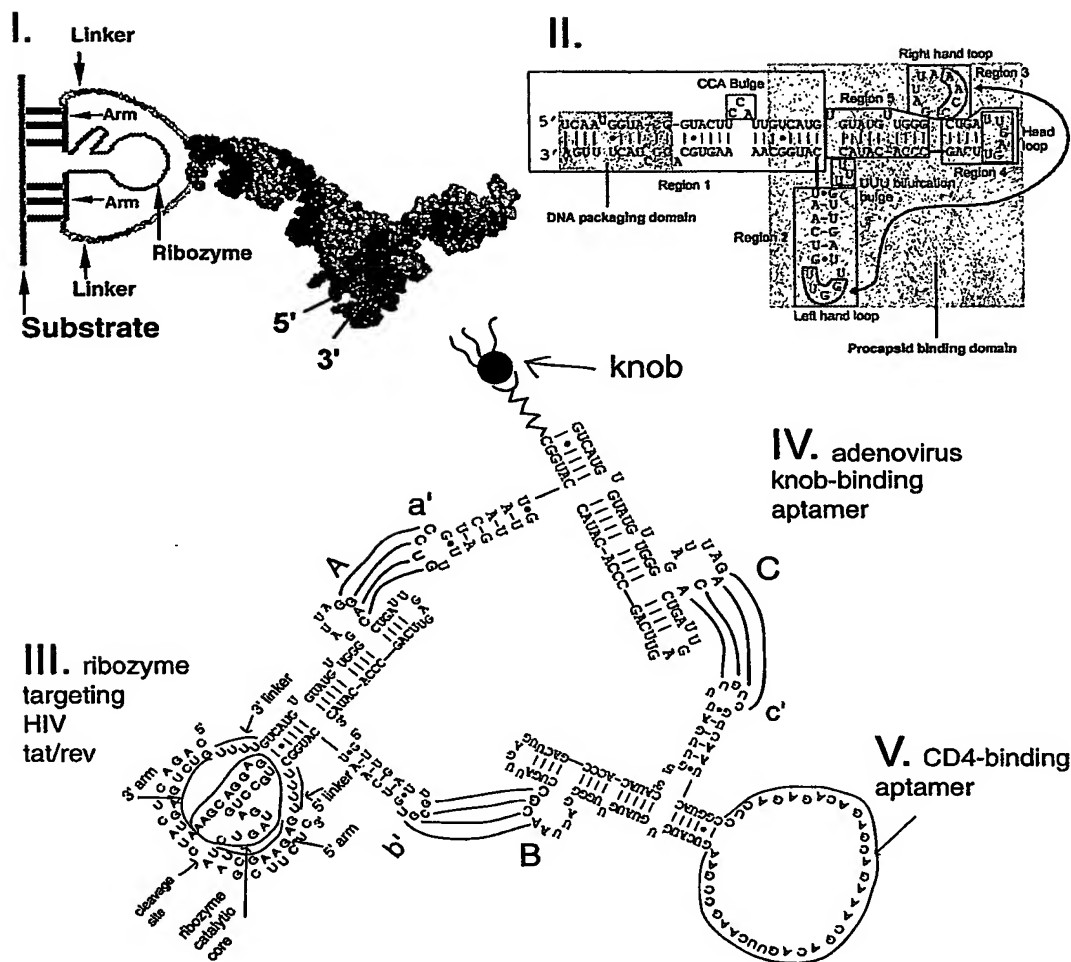
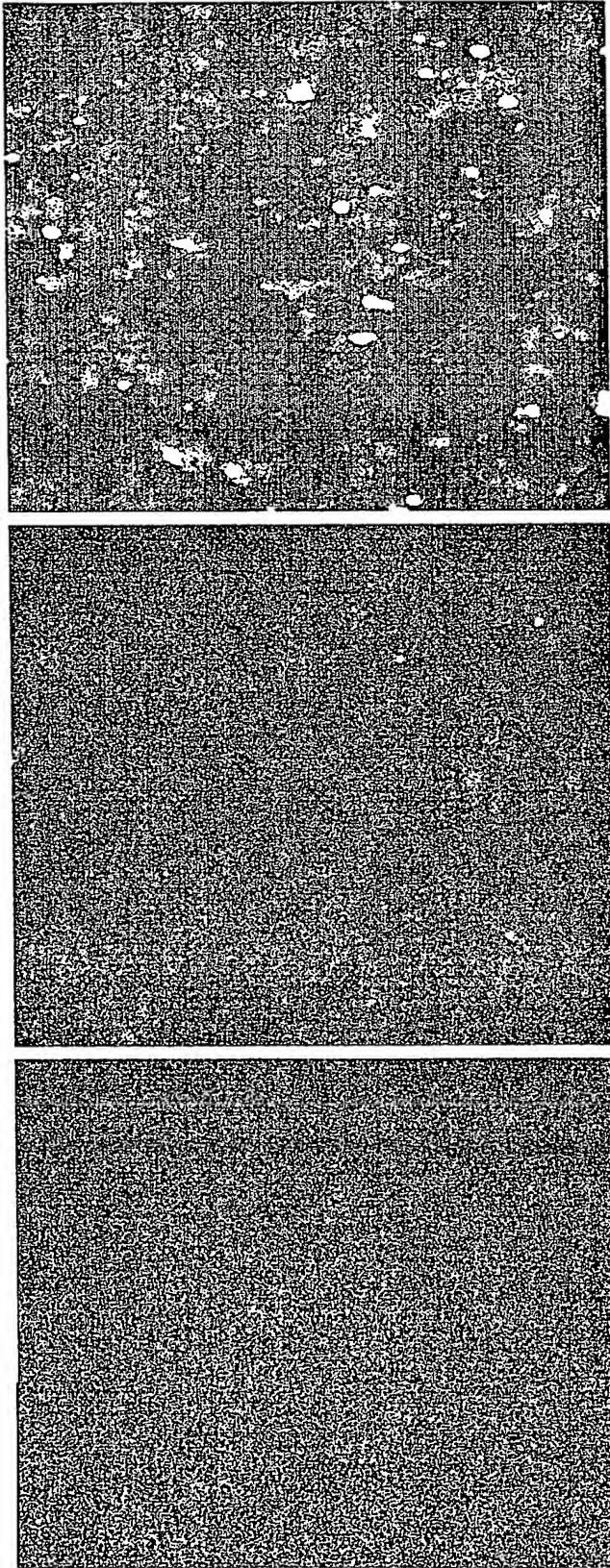


Fig. 22

Silencing of GFP Gene by siRNA



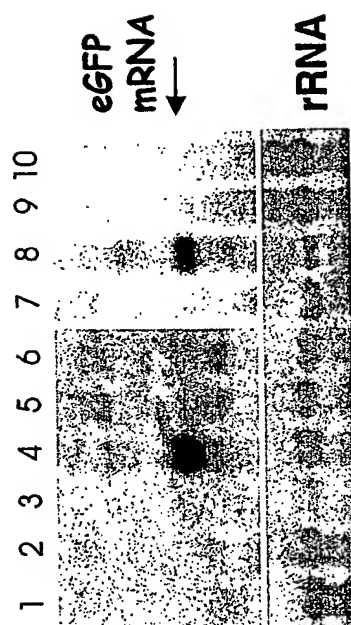
No siRNA

21-bp siRNA

Control siRNA

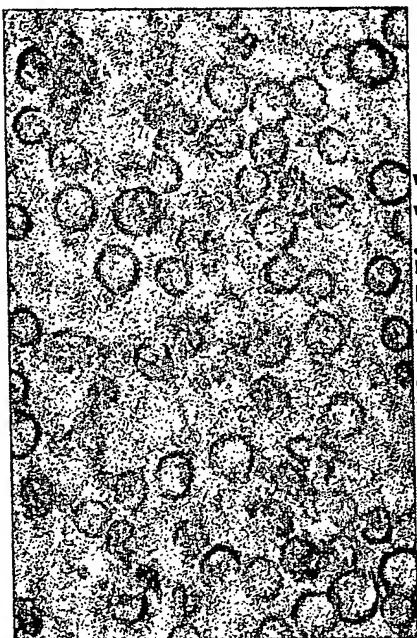
Fig. 23a

Fig. 23b



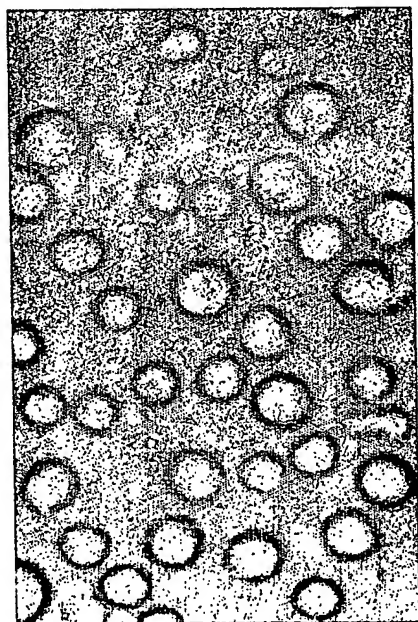
FL5.12A +IL-3

Survivin Ribozyme



53% Viable

GAPDH siRNA



98% Viable

Fig. 24